

## EAST Search History

| Ref # | Hits | Search Query   | Dbs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S4    | 9    | ((LNA or (Low adj2 noise adj2 amplif\$4)) with (tun\$4)) same (control\$5 or adjust\$5 or order\$4) and (schmitt or hyster\$4) and (@riad<"20030222" or @ad<"20030222" or @ptad<"20030222"))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 08:45 |
| S5    | 269  | (@riad<"20030222" or @ad<"20030222" or @ptad<"20030222") and (LNA or (Low adj2 noise adj2 amplif\$4)) and (amplif\$6 with (control\$5 or adjust\$5 or order\$4) and (schmitt or hyster\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/22 16:30 |
| S7    | 109  | (@riad<"20030222" or @ad<"20030222" or @ptad<"20030222") and (LNA\$4 or (Low adj2 nois\$3 adj2 amplif\$4)) and (amplif\$6 with control\$5) and (schmitt or hyster\$4) and diode and detect\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/21 16:37 |
| S8    | 106  | (@riad<"20030222" or @ad<"20030222" or @ptad<"20030222") and (LNA\$4 or (Low adj2 nois\$3 adj2 amplif\$4)) and (amplif\$6 with control\$5) and (schmitt or hyster\$4) and diode and detect\$5 and (antenna or recei\$5 or transceiv\$5)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/26 15:10 |
| S9    | 88   | (@riad<"20030222" or @ad<"20030222" or @ptad<"20030222") and (LNA\$4 or (Low adj2 nois\$3 adj2 amplif\$4)) and (amplif\$6 with control\$5) and (schmitt or hyster\$4) and diode and (transistor or FET) and detect\$5 and (antenna or recei\$5 or transceiv\$5)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/26 15:11 |
| S10   | 90   | (@riad<"20030222" or @ad<"20030222" or @ptad<"20030222") and (LNA\$4 or (Low adj2 nois\$3 adj2 amplif\$4)) and (amplif\$6 with control\$5) and (schmitt or hyster\$4) and diode and (transistor or FET) and detect\$5 and (antenna or recei\$5 or transceiv\$5 or RF or radio) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/26 15:17 |

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|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S11 | 34 | (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222") and (LNA\$4 or (Low adj2 noise\$3 adj2 amplif\$4)) and (amplif\$6 with control\$5) and (schmitt or hyster\$4) and diode and (transistor or FET) and detect\$5 and (antenna or recei\$5 or transceiv\$5 or RF or radio) and ("455".clas. or "375".clas. or "330".clas.) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/26 15:46 |
| S12 | 1  | (LNA or (Low adj2 noise adj2 amplif\$4)).ti. and (tun\$5) and (schmitt or hyster\$4) and (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/26 15:49 |
| S16 | 1  | ((auto or automat\$5 or electrical\$5 or self or continu\$6) near2 (select\$4 or tun\$4 or adjust\$4 or compensat\$4 or offset\$5 or (off adj set\$5) or calibrat\$5) near2 (LNA or (Low adj2 noise adj2 amplif\$4))) and (schmitt or hyster\$4) and (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222")                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/30 09:23 |
| S17 | 5  | ((auto or automat\$5 or electrical\$5 or self or continu\$6) near4 (select\$4 or tun\$4 or adjust\$4 or compensat\$4 or offset\$5 or (off adj set\$5) or calibrat\$5) near4 (LNA or (Low adj2 noise adj2 amplif\$4))) and (schmitt or hyster\$4) and (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222")                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 08:42 |
| S19 | 66 | ((auto or automat\$5 or electrical\$5 or self) or (select\$4 or tun\$4 or adjust\$4 or compensat\$4 or offset\$5 or (off adj set\$5) or calibrat\$5)) near4 (LNA or (Low adj2 noise adj2 amplif\$4)).ti. and (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/30 14:08 |
| S21 | 16 | ("3581210"   "4030035"   "4553105"   "5034819"   "5134707"   "5276904"   "5280643"   "5465408").PN. OR ("5638141").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/05/30 13:05 |
| S23 | 8  | ((sensit\$7 or auto or automat\$5 or electrical\$5 or self) near2 (select\$4 or tun\$4 or adjust\$4 or compensat\$4 or offset\$5 or (off adj set\$5) or calibrat\$5) near2 (LNA or (Low adj2 noise adj2 amplif\$4))) and (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/30 14:11 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S24 | 7   | ((diode with switch\$5) same (LNA or (low adj noise adj amplifier))) and (schmitt or hyster\$4) and (@rlad <"20030222" or @ad <"20030222" or @ptad <"20030222")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/30 14:26 |
| S28 | 243 | ((auto or automat\$5 or electrical\$5 or self or continu\$6 or sensit\$6) near\$4 (select\$4 or tun\$4 or adjust\$4 or compensat\$4 or offset\$5 or (off adj sel\$5) or calibrat\$5 or control\$5) near\$4 (LNA or (Low adj2 noise adj2 amplif\$4))) and (@rlad <"20030222" or @ad <"20030222" or @ptad <"20030222") | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 08:44 |
| S29 | 18  | S28 and (schmitt or hyster\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 08:46 |
| S30 | 30  | (@rlad <"20030222" or @ad <"20030222" or @ptad <"20030222") and ((transistor or switch\$5) with base with emitter with (collector near\$4 ground\$5)) and ((LNA or (Low adj2 noise adj2 amplif\$4) with (transistor or switch\$5))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 09:15 |
| S36 | 3   | (@rlad <"20030222" or @ad <"20030222" or @ptad <"20030222") and (LNA or (Low adj2 noise adj2 amplif\$4) and ((diode with antenna with amplif\$6) same (diode with amplif\$6 with tun\$5))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 10:04 |
| S37 | 37  | (@rlad <"20030222" or @ad <"20030222" or @ptad <"20030222") and ((diode with antenna with amplif\$6) same (diode with amplif\$6 with tun\$5)) and ((diode near\$5 antenna) same (diode near\$5 of tun\$5))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 15:45 |
| S38 | 22  | (@rlad <"20030222" or @ad <"20030222" or @ptad <"20030222") and (LNA or (Low adj2 noise adj2 amplif\$4) and ((diode with antenna with amplif\$6) same (diode with amplif\$6 with (tun\$5 or filter)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 11:07 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S40 | 0   | (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222") and ((LNA or (Low adj2 noise adj2 amplif\$4)) with control\$5 with (method or apparatus)) and ((LNA or amplif\$5) with on with off)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 11:15 |
| S41 | 32  | (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222") and ((LNA or (Low adj2 noise adj2 amplif\$4)) with control\$5 with (method or apparatus)) and ((LNA or amplif\$5) with on or activat\$5)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 11:16 |
| S42 | 15  | (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222") and ((LNA or (Low adj2 noise adj2 amplif\$4)) with (control\$5 or tun\$5) with (method or apparatus)) and ((LNA or amplif\$5) with (on or activat\$5)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 13:44 |
| S43 | 130 | (diode and antenna and amplif\$6 and (tun\$5 or filter\$3))   | JPO   | OR | ON | 2006/06/21 15:46 |
| S44 | 123 | S43 and @pd<"20030222"  | JPO   | OR | ON | 2006/06/21 16:35 |
| S45 | 5   | S44 and (LNA or (low adj2 amplif\$6))   | JPO   | OR | ON | 2006/06/21 15:47 |
| S46 | 1   | (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222") and ((emitter near\$5 (logic\$5 or compar\$6)) with (collector near\$4 ground\$5)) and (LNA or (Low adj2 noise adj2 amplif\$4))                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 16:39 |
| S47 | 29  | (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222") and ((emitter with (logi\$5 or compar\$6 or determin\$5)) with (collector near\$4 ground\$5)) and (LNA or (Low adj2 noise adj2 amplif\$4))             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 16:55 |
| S48 | 167 | (@rlad<"20030222" or @ad<"20030222" or @ptad<"20030222") and (((emitter with (logi\$5 or compar\$6 or determin\$5)) with (collector near\$4 ground\$5)) same amplif\$7)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 10:57 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S49 | 139   | S48 not S47   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/21 16:56 |
| S50 | 929   | 455/245.2.ccls. or 455/249.1.ccls. or 725/68.ccls. or 348/735.ccls.     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:25 |
| S54 | 152   | S50 and (diode same amplif\$7)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 14:09 |
| S55 | 1327  | 455/232.1.ccls. or 455/234.1.ccls. or 455/234.2.ccls. or 4558/280.ccls. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:27 |
| S56 | 21566 | 330/250-311.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:28 |
| S57 | 260   | (LNA or (low adj noise adj amplifier)) same (switch\$3 with transistor) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:43 |
| S58 | 69    | (S55 or S56) and S57  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:30 |

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|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S59 | 45 | S58 and (@riad < "20030222" or @ad < "20030222" or @ptad < "20030222")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:53 |
| S60 | 0  | (S55 or S56) and (LNA same (tuner tuning) same (second near2 diode))    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:44 |
| S61 | 3  | (LNA same (tuner tuning) same (second near2 diode))                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:44 |
| S62 | 32 | (LNA or (low adj noise adj amplifier)) same (tuner tuning) same (diode) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:53 |
| S63 | 25 | S62 and (@riad < "20030222" or @ad < "20030222" or @ptad < "20030222")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:57 |
| S64 | 3  | (S55 or S56) and S63  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/22 16:57 |